

GenCore version 5.1.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: February 1, 2005, 13:06:53 ; Search time 120 Seconds

(without alignments)
3461.738 Million cell updates/sec

Title: US-10-659-782A-11

Perfect score: 1030

Sequence: 1 actctggatgggtgctgttt.....tggcagcagaggaggggtgggg 579

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2002273 seqs, 358729299 residues

Total number of hits satisfying chosen parameters: 4004546

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+n2p.model -DEV=xlp
-Q=/cn2_1/USPTO_spool_p/US10659782/runat_01022005_130351_14247/app_query.fasta_1.775
-DB=A_Geneseq_23Sep04 -QFMT=fastan -SUFFIX=rag -MINMATCH=0.1 -LOOPEXT=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US10659782 @CN2_1.1.224 @runat_01022005_130351_14247 -NCFU=6 -ICPU=3
-NO MNAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THRADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : A_Geneseq_23Sep04:**

1: Geneseqp1980s:**
2: Geneseqp1990s:**
3: Geneseqp2000s:**
4: Geneseqp2001s:**
5: Geneseqp2002s:**
6: Geneseqp2003as:**
7: Geneseqp2003bs:**
8: Geneseqp2004s:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	379	36.8	126	AAM40676	Aam40676 Human pol
2	326	31.7	91	Aae33410	Aae33410 Human exo
3	326	31.7	117	Aaw87991	Aaw87991 Protein d
4	326	31.7	117	AA87236	Aay87236 Human sig
5	326	31.7	117	AAB20101	Aab20101 ZsiG33 pr
6	326	31.7	117	AA862649	Aab62649 Human zsi
7	326	31.7	117	AA862649	Aam38890 Human pol
8	326	31.7	117	AA860511	Aab60511 Human chr
9	326	31.7	117	AB878319	Abb78319 Amino aci
10	326	31.7	117	AAE23838	Aae23838 Human zsi

11	326	31.7	117	5	AAE15883	Human zsi
12	326	31.7	117	6	ABU58046	Human PRO
13	326	31.7	117	6	ABU59124	Novel hum
14	326	31.7	117	6	ABU82636	Human sec
15	326	31.7	117	6	ABO17836	Novel hum
16	326	31.7	117	6	ABU60555	Human sec
17	326	31.7	117	6	ABU13937	Human PRO
18	326	31.7	117	6	ABU81090	Human PRO
19	326	31.7	117	6	ABU72522	Novel hum
20	326	31.7	117	6	ABU66790	Human PRO
21	326	31.7	117	6	ABU59871	Novel sec
22	326	31.7	117	6	ABU59271	Human sec
23	326	31.7	117	6	ABO25968	Human PRO
24	326	31.7	117	6	ABO25061	Human sec
25	326	31.7	117	6	ABU58977	Human sec
26	326	31.7	117	6	ABU92355	Novel hum
27	326	31.7	117	6	AAE33409	Human pre
28	326	31.7	117	6	ABU59420	Novel hum
29	326	31.7	117	6	ABU67066	Human sec
30	326	31.7	117	6	ABU92186	Novel hum
31	326	31.7	117	6	ABU10892	Human PRO
32	326	31.7	117	6	ABU81644	Novel hum
33	326	31.7	117	6	ABU88583	Human sec
34	326	31.7	117	6	ABO34097	Human PRO
35	326	31.7	117	6	ADA45961	Novel hum
36	326	31.7	117	6	ADA76392	Human PRO
37	326	31.7	117	6	ADA19042	Human PRO
38	326	31.7	117	6	ADA61665	Homo sapi
39	326	31.7	117	6	ADB19450	Novel hum
40	326	31.7	117	6	ADB27991	Human PRO
41	326	31.7	117	6	ADA86470	Novel hum
42	326	31.7	117	6	ADB16034	Human PRO
43	326	31.7	117	6	ADA37779	Human sec
44	326	31.7	117	6	ADA47820	Human PRO
45	326	31.7	117	6	ADA21465	Human sec

ALIGNMENTS

RESULT 1
AAM40676

ID AAM40676 standard; protein; 126 AA.

AC AAM40676;

DT 22-OCT-2001 (first entry)

DE Human polypeptide SEQ ID NO 5607.

KW Human; notropic; immunosuppressant; cytostatic; gene therapy; cancer;

KW peripheral nervous system; neuropathy; central nervous system; CNS;

KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;

KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;

KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;

KW leukaemia.

XX Homo sapiens.

XX OS

XX PN WO200153312-A1.

XX PD 26-JUL-2001.

XX PF 26-DEC-2000; 2000WO-US034263.

XX PR 23-DEC-1999; 99US-00471275.

XX PR 21-JAN-2000; 2000US-00488725.

XX PR 25-APR-2000; 2000US-0052317.

XX PR 20-JUN-2000; 2000US-00598042.

XX PR 19-JUL-2000; 2000US-00620312.

XX PR 03-AUG-2000; 2000US-00653450.

XX PR 14-SEP-2000; 2000US-00662191.

XX PR 19-OCT-2000; 2000US-00693036.

XX PR 29-NOV-2000; 2000US-00727344.

QY 292 CAGCAGCGGCATCTCGGGCTTCAGTCTTCTCCAGAGCACAAGAGACTCTGGGTCTGAC 351
 DB 37 ----- 37
 QY 352 CTCACGTGTTCTGGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTCC 411
 DB 37 ----- 37
 QY 412 AGCAGAGAAGAGTCCGAAGACCCACAGCTGAGCCCGAGCTCTAGCAGGCT 471
 DB 38 ----- 56
 QY 472 GGCTCCGCGGAGAGTGAAGTCAAGCAGAGGGGCGAGAGTGAAGTCCGG 530
 DB 56 rpleuArgProGluAspGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 3
 AAW87991
 ID AAW87991 standard; protein; 117 AA.
 AC AAW87991;
 DT 07-APR-1999 (first entry)
 XX Protein designated zsig33.
 DE
 XX Zsig33; gastric motility; gastrointestinal inflammation; reflux disease;
 KW nutrient absorption regulation; obesity; metabolic disorder.
 XX Homo sapiens.
 OS
 XX Key Location/Qualifiers
 FT Peptide 1..23
 FT Protein 24..117
 FT /note= "signal peptide"
 FT /note= "mature protein"
 XX WO9842840-A1.
 PN
 PD 01-OCT-1998.
 XX
 XX 23-MAR-1998; 98WO-US005620.
 XX
 XX 24-MAR-1997; 97US-0041102P.
 PR 24-MAR-1997; 97US-00822897.
 XX
 XX (ZYMO) ZYMOGENETICS INC.
 XX
 XX Sheppard PO, Deisher TA;
 PI
 XX WPI; 1999-070071/06.
 DR
 DR N-PSDB; AAX04550.
 XX
 XX Human polypeptide having homology to motilin, zsig33 - useful e.g. to
 PT treat gastrointestinal motility disorders, obesity etc. and to identify
 PT antagonists to treat gastrointestinal hypermotility.
 XX
 XX Claim 13; Page 55-56; 69pp; English.
 XX
 CC The present sequence represents a protein designated Zsig33. The nucleic
 CC acids are strongly expressed in stomach tissue. The polypeptide (or
 CC allelic variants/orthologs) can be used to stimulate gastric motility,
 CC measured as increased transit time or gastric emptying of an ingested
 CC substance in mammals. The products are used to treat disorders associated
 CC with gastrointestinal cell contractility, secretion of digestive
 CC enzymes/acids, gastrointestinal motility, recruitment of digestive
 CC enzymes, gastrointestinal inflammation, reflux disease and nutrient
 CC absorption regulation. Zsig33 polypeptides may also be important
 CC neurologically, since the family of gut-brain peptides to which the
 CC homologous protein motilin belongs has been associated with neurological
 CC and CNS functions. They may therefore be used e.g. to regulate satiety or
 CC treat obesity and other metabolic disorders where neurological feedback

CC modulates nutritional absorption. They are useful to identify zsig33
 CC agonists, antagonists and ligands and to produce antibodies
 XX
 SQ Sequence 117 AA;

Alignment Scores:
 Pred. No.: 4, 93e-24 Length: 117
 Score: 326.00 Matches: 74
 Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: 2 Gaps: 1

US-10-659-782A-11 (1-579) x AAW87991 (1-117)

QY 112 ATGCCCTCCCGAGGACCGTCTGACGCTCTCTGCTCTCGGCATGCTCTGGTGGACTTG 171
 DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 QY 172 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGACACACAGAGTCCAGGTGAGACCTCC 231
 DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 QY 232 CACAAAGCCCGACATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 291
 DB 37 ----- 37
 QY 292 CAGCAGCGCCATCTCTGGGCTTCACTTCTCCAGAGCACAAGAGACTCTGGGTCTGAC 351
 DB 37 ----- 37
 QY 352 CTCACGTGTTCTGGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTCC 411
 DB 37 ----- 37
 QY 412 AGCAGAGAAGAGTCCGAAGACCCACAGCTGAGCCCGAGCTCTAGCAGGCT 471
 DB 38 -----ArgLysGluSerLysLysProProAlaLysLeuGlnProArgAlaLeuAlaGly 56
 QY 472 GGCTCCGCGGAGAGTGAAGTCAAGCAGAGGGGCGAGAGTGAAGTCCGG 530
 DB 56 rpleuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 4

AAW87236
 ID AAW87236 standard; protein; 117 AA.

XX
 AC AAW87236;

XX
 DT 11-MAY-2000 (first entry)

XX Human signal peptide containing protein HSPB-13 SEQ ID NO:13.

XX Human; signal peptide-containing protein; HSPB; diagnosis; cancer;
 KW inflammation; cardiovascular disease; anticancer; anti-inflammatory;
 KW antimicrobial; neurotropic; neuroprotective; cardiovascular; hepatotropic;
 KW antiasthmatic; gene therapy; cell proliferation; neurological disorder;
 KW reproductive disorder; developmental disorder; arteriosclerosis;
 KW cirrhosis; psoriasis; acquired immune deficiency syndrome; anaemia;
 KW asthma; Crohn's disease; infection; Alzheimer's disease; schizophrenia;
 KW Parkinson's disease; Huntington's disease; muscular dystrophy;

XX Homo sapiens.

OS WO200000610-A2.

XX 06-JAN-2000.

XX 25-JUN-1999; 99WO-US014484.

XX 26-JUN-1998; 98US-0090762P.

PR 31-JUL-1998; 98US-0094983P.

PR 01-OCT-1998; 98US-0102686P.
XX 11-DEC-1998; 98US-0112129P.
PA (INCY-) INCYTE PHARM INC.
XX Lal P, Tang YT, Gorgone GA, Corley NC, Guegler KJ, Baughn MR;
PI Akerblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL;
PI Bandman O;
XX WPI: 2000-160673/14.
DR N-PSDB; AAZ98121.
XX New human signal peptide-containing proteins useful in treatment,
PT prevention and diagnosis of e.g. cancer, inflammation and cardiovascular
PT disease.
XX Claim 1; Page 168-169; 327pp; English.
XX AAZ98109 to AAZ98242 encode AA87224 to AA87357 which represent the
CC human signal peptide-containing proteins HSPP-1 to HSPP-134. HSPPs have
CC anticancer, anti-inflammatory, antimicrobial, nootropic, hepatotropic,
CC neuroprotective, cardiovascular and antiasthmatic activities, and can be
CC used in gene therapy. HSPPs can be used to treat or prevent disorders
CC associated with decreased activity or function of HSPP. Antagonists of
CC HSPP are used to treat or prevent disorders associated with increased
CC activity or function of HSPP. Such diseases include cell proliferation
CC (including cancer), inflammation, cardiovascular, neurological,
CC reproductive or developmental disorders, (e.g. arteriosclerosis,
CC cirrhosis, psoriasis, acquired immune deficiency syndrome, anaemia,
CC asthma, Crohn's disease, microbial or other infections, congestive or
CC ischaemic heart disease, Alzheimer's, Parkinson's or Huntington's
CC diseases, schizophrenia, ovulatory defects, muscular dystrophy). HSPP
CC nucleic acids can be used for the recombinant production of HSPP, for
CC detecting HSPP in standard hybridisation and amplification assays (for
CC diagnosis and monitoring), in gene therapy, as antisense, triplex-forming
CC or ribozyme therapeutics, for detecting related sequences or genetic
CC variations, and for chromosomal mapping. HSPP are also used to raise
CC specific antibodies (Ab) and to screen for agonists and antagonists
CC (potential therapeutic agents). Ab are used to diagnose, or monitor, HSPP
CC -related diseases (in usual immunoassays), as therapeutic antagonists, in
CC competitive drug screens, and for purification of HSPP from natural
CC sources
XX SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 4,936-24 Length: 117
Score: 326.00 Matches: 74
Percent Similarity: 53.19% Conservative: 1
Best Local Similarity: 52.48% Mismatches: 0
Query Match: 31.65% Indels: 66
DB: 3 Gaps: 1

US-10-659-782A-11 (1-579) x AA87236 (1-117)

QY 112 ATGCGCTCCCGAGGACCGTCTGCGAGCTCTGCTCGCATGCTCGTGGAGCTTG 171
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCATGGAGGCTCCAGCTTCTGAGCCCTGAAACACAGAGAGTCCAGGTGAGACTCCC 231
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCACACGACTCTGTGACCTGGAG 291
Db 37 ----- 37
QY 292 CAGCAGCGCCATCTCTGGGCTTACGTCTTCTCCAGAGACAAAGGACTCTGGGTCTGAC 351
Db 37 ----- 37
QY 352 CTCACCTGTTTCTGGAGGACATGGGGGCTTAGAGTCTTAACAGACTGTTTCCCCCTTCC 411

Db 37 ----- 37
QY 412 AGCAGAGAAAGAGTCTGGAAGACCCACAGCCCAAGCTGCGAGCTCTAGCAGGCT 471
Db 38 -----ArglysgLuserLysLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GGCCTCCGCCGGAAGATGAGGTCAAGCAGAGAGGGGCGAGAGTGAATGAGTCCGCG 530
Db 56 rpleuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 5
AAB20101
ID AAB20101 standard; protein; 117 AA.
XX AAB20101;
AC AAB20101;
DT 23-APR-2001 (first entry)
XX Zsig33 protein.
DE Zsig33; anorectic; antidiabetic; somatotropin; somatomedin-C;
KW nutritional absorption modulator; growth hormone secretagogue; therapy;
KW human.
XX Homo sapiens.
XX Key Location/Qualifiers
FT Peptide 1..23 /label= Signal_peptide
FT Protein 24..117 /label= Mature_protein
FT Peptide 24..34 /label= SGIP peptide
FT /note= "this peptide is claimed in Claim 1"
XX WO200100830-A1.
XX 04-JAN-2001.
XX 30-JUN-2000; 2000WO-US018306.
XX 30-JUN-1999; 99US-00345157.
XX (ZYMO) ZYMOGENETICS INC.
XX Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
XX WPI: 2001-123010/13.
DR N-PSDB; AAF30033.
XX Novel variants of SGIP peptides for modulating contractility in duodenum
PT or jejunum tissue, pancreatic secretion of hormones and digestive
PT enzymes, inducing growth hormone secretion or modulating gastric
PT emptying.
XX Disclosure; 54; 61pp; English.
XX The present sequence is that of zsig33, a secreted protein with homology
XX to motilin (see AAB20102). Zsig33 is expressed at high levels in the
XX stomach, and at lower levels in the small intestine and pancreas. A novel
XX peptide fragment of zsig33, termed SGIP (see AAB20100), is claimed. SGIP
XX is a ligand for growth hormone secretagogue receptor, and is therefore
XX useful for modulating secretion of growth hormone and insulin like growth
XX factor 1. SGIP, and variant SGIP peptides, are used in claimed methods
XX for stimulating contractility in duodenum or jejunum tissue, modulating
XX pancreatic secretion of hormones and digestive enzymes, inducing growth
XX hormone secretion, and modulating gastric emptying
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 4,936-24 Length: 117
Score: 326.00 Matches: 74

Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: 4 Gaps: 1

US-10-659-782A-11 (1-579) x AAB20101 (1-117)

QY 112 ATGCTCTCCCGGAGCCTCTGCGCTCTCTGCGCTCTGCGCTCTGCGCTCTG 171
 DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 QY 172 GCATGGCAGGCTCCAGCTTCTGAGCCTGAAACACAGAGAGTCCAGGTGAGACCTCC 231
 DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 QY 232 CACAAGCCCAATGTTGTTCCAGCCTTCCAGCCTTAGCAACAGCTGTGTGACCTGGAG 291
 DB 37 ----- 37
 QY 292 CAGCAGGCCATCTCTGGGCTTCACTTCTCCAGAGCACAAGGACTCTGGTCTGAC 351
 DB 37 ----- 37
 QY 352 CTCACCTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAAACAGACTGTTTCCCTTCC 411
 DB 37 ----- 37
 QY 412 AGCAGAGAAGAGTTCGAAAGAGCCACCAAGCTGAGCCCGAGCTCTAGCAGGT 471
 DB 38 -----ArgLysGluSerLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
 QY 472 GCTCCGCGGAGATGAGTCAAGCAGAGAGGGGCGAGAGTGAACCTGGAGTCCCG 530
 DB 56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 6

AAB62649
 ID AAB62649 standard; protein; 117 AA.
 XX AAB62649;

23-JUL-2001 (first entry)

Human zsig33 polypeptide.

zsig33; signal transduction; hormone; enzyme; neural development;
 gastric contractility; nutrient uptake; digestive; pancreatic; human;
 insulin-like growth factor-I; growth hormone; bone; gastrointestinal;
 glucose; osteopathic; anorectic; vulnery; immunomodulator; GHS-R;
 G-protein coupled receptor.

OS Homo sapiens.

FH Key Location/Qualifiers

FT Peptide 24..37

FT /note= "specifically claimed fragment that binds to the
 GHS-R"

PN WO200138355-A2.

XX 31-MAY-2001.

XX 22-NOV-2000; 2000WO-US032074.

XX 22-NOV-1999; 99US-0166765P.

XX (ZYMO) ZYMOGENETICS INC.

XX Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;

XX WPI: 2001-355879/37.

XX N-PSDB; AAF83678.

XX

PT Forming reversible peptide receptor complex for purifying cell and
 PT peptides, stimulating signal transduction and modulating hormone
 PT secretion, involves contacting a receptor with zsig33 polypeptide.
 XX
 PS
 Claim 1; Page 93-94; 111pp; English.

XX The invention relates to a method of forming a reversible peptide-
 CC receptor complex that involves providing an immobilized receptor, and
 CC contacting the receptor with a zsig33 peptide (comprising residues 24-37
 CC of AAB62649), where the receptor binds to the zsig33 peptide. The method
 CC is useful for purifying cells, purifying a peptide, stimulating signal
 CC transduction in a cell expressing a receptor. It is also useful for
 CC modulating secretion of hormones, neural development and/or utilization,
 CC gastric contractility, nutrient uptake, secretion of digestive and
 CC pancreatic enzymes and hormones, secretion of insulin-like growth factor
 CC -I, secretion of non-zsig33 proteins. It is useful for modulating growth
 CC hormone secretion in a mammal having a disease associated with abnormal
 CC levels of growth hormone, such as osteoporosis, bone repair, bone
 CC remodeling, low osteoblast levels, cartilage repair and remodeling,
 CC skeletal dysplasia, immune suppression, obesity, growth retardation,
 CC protein catabolic responses after surgery, cachexia, protein loss,
 CC dwarfism, wound healing and ovulation induction, treating a mammal having
 CC a metabolic disorder requiring neurological feedback, such as satiety
 CC regulation, glucose absorption and metabolism and neuropathy-associated
 CC gastrointestinal disorders, and stimulating glucose-induced insulin
 CC release in a mammal. The present sequence represents the human zsig33
 CC polypeptide, a peptide ligand for the G-protein coupled receptor, GHS-R
 XX
 SQ Sequence 117 AA;

Alignment Scores:

Pred. No.: 4.93e-24 Length: 117
 Score: 326.00 Matches: 74
 Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: 4 Gaps: 1

US-10-659-782A-11 (1-579) x AAB62649 (1-117)

QY 112 ATGCTCTCCCGGAGCCTCTGCGCTCTCTGCGCTCTGCGCTCTGCGCTCTG 171
 DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 QY 172 GCATGGCAGGCTCCAGCTTCTGAGCCTGAAACACAGAGAGTCCAGGTGAGACCTCC 231
 DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 QY 232 CACAAGCCCAATGTTGTTCCAGCCTTCCAGCCTTAGCAACAGCTGTGTGACCTGGAG 291
 DB 37 ----- 37
 QY 292 CAGCAGGCCATCTCTGGGCTTCACTTCTCCAGAGCACAAGGACTCTGGTCTGAC 351
 DB 37 ----- 37
 QY 352 CTCACCTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAAACAGACTGTTTCCCTTCC 411
 DB 37 ----- 37
 QY 412 AGCAGAGAAGAGTTCGAAAGAGCCACCAAGCTGAGCCCGAGCTCTAGCAGGT 471
 DB 38 -----ArgLysGluSerLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
 QY 472 GCTCCGCGGAGATGAGTCAAGCAGAGAGGGGCGAGAGTGAACCTGGAGTCCCG 530
 DB 56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 7

AAM38890
 ID AAM38890 standard; protein; 117 AA.
 XX
 AC AAM38890;

CC peptides comprising recombinant production, optionally followed by
CC chemical modification; an antibody specific for a peptide of the
CC invention; and an assay and kit for detecting the peptides. The peptides
CC of the invention are useful for treating and/or diagnosing diseases
CC caused by a deficiency in growth hormone expression or activity. In
CC particular, they are useful for promoting infant growth due to growth
CC hormone deficiency. The compounds of the invention are safe with no
CC accompanying side effects. The present sequence represents a ghrelin-type
CC growth hormone secretagogue (GHS) precursor protein of the invention
XX
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 4,93e-24 Length: 117
Score: 326.00 Matches: 74
Percent Similarity: 53.19% Conservative: 1
Best Local Similarity: 52.48% Mismatches: 0
Query Match: 31.65% Indels: 66
DB: 4 Gaps: 1

US-10-659-782A-11 (1-579) x AAB60511 (1-117)

QY 112 ATGCTCCCTCCCGAGGACCGTCTCAGCCTCTCTCGCATGCTCTGGTGGACTTG 171
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCATGGCAGGCTCCAGCTTCCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACTCCC 231
Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGACTCTGTGACCTGGAG 291
Db 37 ----- 37
QY 292 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 351
Db 37 ----- 37
QY 352 CTCACGTGTTCTCGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 411
Db 37 ----- 37

QY 412 AGCAGAGAAAGGAGTCCGAGAGCCACAGCCAGCTGCAGCCCGAGCTCTAGCAGGCT 471
Db 38 -----ArgLysGluSerLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GGCTCCGCGCGGAGATGGAGGTCAAGCAGAGAGGGGCGAGAGGATGAACCTGGAAGTCCGG 530
Db 56 rpleuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 9
ID ABB78319
XX standard; protein; 117 AA.

AC ABB78319;
XX
XX 05-DEC-2002 (first entry)
DT Amino acid sequence of a human zsig33.
DE Short gastrointestinal peptide; SGIP; zsig33; motilin.
KW Homo sapiens.
XX

OS Key Location/Qualifiers
FH Peptide 1..23 /note= "signal peptide"
FT Protein 24..119 /note= "mature protein"
FT US6420521-B1.
XX
XX 16-JUL-2002.

XX 30-JUN-2000; 2000US-00608810.
PF 30-JUN-1999; 99US-0141592P.
XX (ZYMO) ZYMOGENETICS INC.
PA Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
PI WPI; 2002-634794/68.
XX N-PSDB; ABV72214.
DR New Short Gastrointestinal Peptide, which has homology to motilin, useful
XX for preventing, diagnosing and treating gastrointestinal disorders.
XX Disclosure; Col 39-40; 23pp; English.
CC The present sequence represents human zsig33. The specification describes
CC a short gastrointestinal peptide (SGIP), which is derived from zsig33.
CC SGIP has homology to motilin. The SGIP peptide may be used in the
CC prevention, diagnosis and treatment of diseases associated with
CC disorders associated with decreased expression by rectifying mutations or
CC deletions in a patient's genome that affect the activity of SGIP by
CC expressing inactive proteins or to supplement the patients own production
CC of SGIP. SGIP may also be used as an antigen in the production of
CC antibodies against SGIP and in assays to identify modulators of SGIP
CC expression and activity. The anti-SGIP antibodies, agonists and
CC antagonists may also be used to regulate expression and activity. The
CC anti-SGIP antibodies may also be used as diagnostic agents for detecting
CC the presence of SGIP in samples
XX

SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 4,93e-24 Length: 117
Score: 326.00 Matches: 74
Percent Similarity: 53.19% Conservative: 1
Best Local Similarity: 52.48% Mismatches: 0
Query Match: 31.65% Indels: 66
DB: 5 Gaps: 1

US-10-659-782A-11 (1-579) x ABB78319 (1-117)

QY 112 ATGCTCCCTCCCGAGGACCGTCTCAGCCTCTCTCGCATGCTCTGGTGGACTTG 171
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCATGGCAGGCTCCAGCTTCCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACTCCC 231
Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGACTCTGTGACCTGGAG 291
Db 37 ----- 37
QY 292 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 351
Db 37 ----- 37
QY 352 CTCACGTGTTCTCGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 411
Db 37 ----- 37
QY 412 AGCAGAGAAAGGAGTCCGAGAGCCACAGCCAGCTGCAGCCCGAGCTCTAGCAGGCT 471
Db 38 -----ArgLysGluSerLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GGCTCCGCGCGGAGATGGAGGTCAAGCAGAGAGGGGCGAGAGGATGAACCTGGAAGTCCGG 530
Db 56 rpleuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 10

CC The invention relates to zsig33-like peptides (ZS33LP) including zsig33-
CC linker, zsig33-beta, zsig33-gamma, zsig33-delta and zsig33-epsilon
CC peptides and nucleic acid molecules encoding such zsig33-like peptides.
CC ZS33LP peptides activate the immune system in boosting immunity to
CC infectious diseases, treating immunocompromised patients such as human
CC immunodeficiency virus (HIV) patients, in improving vaccines and in
CC treatment of bacterial, viral, protozoal and fungal infections. Peptides
CC of the invention are used to identify and isolate receptors involved in
CC growth regulation in the liver, blood vessel formation and other
CC developmental processes. They are useful for evaluating functions of
CC hypothalamus-pituitary-adrenal axis, as modulators to anti-hypoglycaemic
CC differentiations of tumour cells, as additives to oral
CC preparations containing glucose and as adsorption enhancers for oral
CC drugs which require fast nutrient action and to stimulate glucose-induced
CC insulin release. They are also useful as research reagents for the
CC expansion, differentiation, growth factor and hormone secretion and/or
CC cell-cell interactions of tissues associated with gastrointestinal
CC system, brain and central nervous system. These molecules are useful for
CC treating dysfunction associated with contractile tissues or to suppress
CC or enhance contractility in vivo and to treat gastrointestinal and growth
CC related diseases. ZS33LP peptides, nucleic acids and/or antibodies are
CC useful for treating disorders associated with gastrointestinal
CC contractility, secretion of digestive enzymes, hormone and acids,
CC secretion of hormones in the pancreas and/or brain, gastrointestinal
CC motility, recruitment of digestive enzymes, inflammation and regulation
CC of nutrient absorption. Sequences of the invention are useful in gene
CC therapy. The present sequence is human zsig33 protein
XX
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: Length: 117
Score: 326.00 Matches: 74
Percent Similarity: 53.19% Conservative: 1
Best Local Similarity: 52.48% Mismatches: 0
Query Match: 31.65% Indels: 66
DB: Gaps: 1

US-10-659-782A-11 (1-579) x ABE15883 (1-117)

QY 112 ATGCGCTCCCGAGGACCTCTGCGCTCTGCTCTGCGCTCTGCTGACTTG 171
DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCATGGCAGGCTCCAGCTTCTGAGCCCTGACACACAGAGAGTCCAGTGTAGACTCCC 231
DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 232 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACCTGGAG 291
DB 37 ----- 37
QY 292 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 351
DB 37 ----- 37
QY 352 CTCACGTGTTTCTGGAAGGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTTCC 411
DB 37 ----- 37
QY 412 ASCAGAGAAGAGTGCAGAGAGCCAGCCAGCTGAGCCCGAGCTCTAGCAGCT 471
DB 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GGTCCGCGCGAAGATGAGGTTCAGCAGAGAGGGGACAGAGTGAAGTGAAGTCCGG 530
DB 56 rpleuargProGluaspGlyGlyGlnAlaGluaspGluLeuGluValarg 75

RESULT 12
ID ABUS8046
XX ABUS8046 standard; protein; 117 AA.
AC ABUS8046;

XX 14-APR-2003 (first entry)
DT Human PRO polypeptide #78.
XX Human; PRO; cytostatic; tumour; cancer; lung; stomach; liver;
KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodrug therapy.
XX Homo sapiens.
XX US2003027163-A1.
PD 06-FEB-2003.
XX 15-NOV-2001; 2001US-00997666.
XX 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020089.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.

[illegible]

QY 292 CAGAGGCCATCTCTGGGCTTCACTCTCTCCAGAGCACAAGGACTCTGGGTCTGAC 351
Db 37 ----- 37
QY 352 CTCACCTGTTCTGGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTTCC 411
Db 37 ----- 37
QY 412 AGCAGAAAGAGTTCGAAGACCAAGCCAGCTGAGCCCGAGCTCTAGCAGCT 471
Db 38 -----ArglysgluSerlyslsProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GCCTCCGCCCGAAGATCGAGTCTCAAGCAGAGGGCGAGAGTCAACTGGAGTCCCG 530
Db 56 rpLeuArgprogluaspGlyGlyGlnAlaGluGlyAlaGluaspGluLeuGluValArg 75

RESULT 13
ID ABUS9124 standard; protein; 117 AA.
XX AC ABUS9124;
XX XX
XX XX
XX 28-APR-2003 (first entry)
XX XX
XX Novel human secreted or transmembrane protein PRO1066.
XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
XX OS Homo sapiens.
XX XX
XX US2002132252-A1.
XX XX
XX 19-SEP-2002.
XX PF 14-NOV-2001; 2001US-00990442.
XX XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
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PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
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PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
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PR 10-JUN-1998; 98US-0088738P.
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PR 11-JUN-1998; 98US-0088876P.
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PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX XX

(GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams FW, Wood WI;

PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
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PR 12-AUG-1998; 98US-0096329P.
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PR 20-AUG-1998; 98US-0097218P.
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PR 31-AUG-1998; 98US-0098014P.
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PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98US-0100634P.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98US-0100858P.
PR 07-OCT-1998; 98US-0100858P.
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PR 05-JAN-1999; 98US-0100858P.
PR 08-MAR-1999; 98US-0100858P.
PR 12-MAR-1999; 98US-0100858P.
PR 12-MAR-1999; 98US-0100858P.
PR 23-JUN-1999; 98US-0100858P.
PR 07-JUL-1999; 98US-0100858P.
PR 20-JUL-1999; 98US-0100858P.
PR 26-JUL-1999; 98US-0100858P.
PR 28-JUL-1999; 98US-0100858P.
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PR 30-NOV-1999; 98US-0100858P.
PR 01-DEC-1999; 98US-0100858P.
PR 01-DEC-1999; 98US-0100858P.
PR 16-DEC-1999; 98US-0100858P.
PR 20-DEC-1999; 98US-0100858P.
PR 06-JAN-2000; 98US-0100858P.
PR 11-FEB-2000; 98US-0100858P.
PR 18-FEB-2000; 98US-0100858P.
PR 22-FEB-2000; 98US-0100858P.
PR 24-FEB-2000; 98US-0100858P.
PR 02-MAR-2000; 98US-0100858P.
PR 10-MAR-2000; 98US-0100858P.
PR 15-MAR-2000; 98US-0100858P.
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PR 30-MAY-2000; 98US-0100858P.
PR 02-JUN-2000; 98US-0100858P.
PR 23-JUN-2000; 98US-0100858P.
PR 28-JUL-2000; 98US-0100858P.
PR 11-AUG-2000; 98US-0100858P.

Alignment Scores:

Pred. No.: 4.93e-24
Score: 326.00
Percent Similarity: 53.19%
Best Local Similarity: 52.48%
Query Match: 31.65%
DB: 6

Length: 117
Matches: 74
Conservative: 1
Mismatch: 0
Indels: 66
Gaps: 1

PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 21-JUN-2001; 2001US-00887879.
 PR 22-JUN-2001; 2001WO-US020116.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 08-JUL-2001; 2001WO-US021735.
 PR 18-JUL-2001; 2001US-00908827.
 PR 06-AUG-2001; 2001US-00924419.
 PR 09-AUG-2001; 2001US-00927796.
 PR 16-AUG-2001; 2001US-00931836.
 PR 19-DEC-2001; 2001US-00028072.

XX (GETH) GENENTECH INC.

PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

XX WPI; 2003-341980/32.
 DR N-PSDB; ACD24073.

XX New secreted and transmembrane PRO nucleic acids, for treating
 PT inflammation, organ failure, atherosclerosis, cardiac injury,
 PT infertility, birth defects, premature aging, acquired immunodeficiency
 PT syndrome (AIDS), or cancer.

XX Claim 12; Fig 442; 660pp; English.

XX The invention describes an isolated nucleic acid (I) comprising, or which
 CC has 80 % sequence identity to, or the full-length coding sequence of, one
 CC of 275 nucleotide sequences, and which encodes a corresponding
 CC polypeptide selected from 275 amino acid sequences, where all sequences
 CC are given in the specification. The polypeptide encoded by (I) is used to
 CC detect PRO polypeptides, link a bioactive molecule to a cell expressing a
 CC PRO polypeptide, modulate a biological activity of a cell, stimulate the
 CC release of tumour necrosis factor (TNF)-alpha from human blood, modulate
 CC the uptake of glucose or free fatty acid by cells, stimulate or inhibit
 CC the proliferation or differentiation of cells or gene expression,
 CC stimulate the release of proteoglycans, stimulate the release of cytokine
 CC from peripheral blood mononuclear cells, inhibit the binding of A-peptide
 CC to factor VIIA, or detect the presence of tumour in a mammal. The nucleic
 CC acid and polypeptide encoded by it, are useful for treating inflammatory
 CC diseases, organ failure, atherosclerosis, cardiac injury, infertility,
 CC birth defects, premature aging, acquired immunodeficiency syndrome
 CC (AIDS), cancer, or diabetic complications. The nucleic acid is useful as
 CC hybridisation probes, in chromosome and gene mapping, and in generating
 CC antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,
 CC diagnostics, biosensors or bioreactors. Both are useful in tissue typing.
 CC This is the amino acid sequence of a novel human secreted and
 CC transmembrane PRO polypeptide

XX Sequence 117 AA;

Alignment Scores:
 Pred. No.: 4,93e-24 Length: 117
 Score: 326.00 Matches: 74
 Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: 6 Gaps: 1

US-10-659-782A-11 (1-579) x ABO17836 (1-117)

QY 112 ATGCGCTCCCGGAGCGCTCGAGCTCTGCTCGGATGCTCTGGCTGGACTTG 171
 Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 QY 172 GCCATGGCAGGCTTCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACCTCC 231
 Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37

QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCACTCTGTGACCTGGAG 291
 Db 37 ----- 37
 QY 292 CAGCAGCCCATCTCTGGGCTTCACTTCTCTCCAGAGCACAAGGACTCTGGGTCTGAC 351
 Db 37 ----- 37
 QY 352 CTCACCTGTTCTGGAAGGACATGGGGGCTTAGAGTCCTAAACAGACTGTTTCCCTCC 411
 Db 37 ----- 37
 QY 412 AGCAGAGAAAGAGTCAAGAAGCCACAGCCCAAGCTGCAGCCCGAGCTCTAGCAGGCT 471
 Db 38 -----ArgLysGlnSerLysProAlaLeuGlnProArgAlaLeuAlaGly 56
 QY 472 GGCTCCGCCCCGAGATGGAGTCAAGCAGAGGGGCGAGAGATGAACCTGGAAGTCCGG 530
 Db 56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

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